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patient at previous point in time which were negative is indicative of seroconversion.

Claim 39:

A method for determining hepatitis C virus specific seroconversion antibodies, comprising incubating a human sample suspected to be a seroconversion sample containing hepatitis C virus specific antibodies taken from a subject (under reducing conditions which prevent formation of covalent, cross linked molecular aggregates with at least one polypeptide consisting of an amino acid sequence found in hepatitis C virus protein NS3 region, which is immunologically reactive with said hepatitis C virus specific seroconversion antibodies, and determining binding of said antibodies to said polypeptide to recognize seroconversion in said subject.

Claim 40:

The method of claim 39, wherein said polypeptide has been modified at least one

cysteine residue.

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Claim 41:

The method of claim 40, wherein said cysteine residue has been modified by

covalent attachment of a modifying group.

Claim 42:

The method of claim 40, wherein said cysteine residue has been replaced by

another amino acid.

Claim 43:

The method of claim 39, wherein said polypeptide consists of (a) at least amino acids 21-282 of SEQ ID NO: 9 and (b) a contiguous sequence of less than 20

amino acids that is not found in hepatitis C virus proteins, wherein (b) has been

concatenated to the N or C terminus of (a), or an isolated polypeptide which is at

least 90% homologous thereto, wherein at least one cysteine of said polypeptide is

modified either by replacing it with another artificial or natural amino acid, or by

a modifying group.

Claim 44:

The method of Claim 41, wherein said modifying group is

maleimidodioctylamine, N-methly-maleinimide, iodoacetic acid, and

iodoacetamide.

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Claim 45: The method of claim 42, wherein said cysteine residue has been replaced by serine, or γ- aminobutyric acid.

Claim 46: The method of claim 39, wherein said polypeptide consists of at least amino acids 19 to 290 of SEQ ID NO: 9, and no more than amino acids 9 to 300 of SEQ ID NO: 9.

Claim 47: The method of claim 39, wherein said polypeptide consists of at least amino acids 16 to 293 of SEQ ID NO: 9, and no more than amino acids 12 to 297 of SEQ ID NO: 9.

Claim 48: The method of claim 41, wherein said polypeptide consists of amino acids 14 to 295 of SEQ ID NO: 2.

A method for recognition of hepatitis C virus seroconversion, comprising: incubating a human sample suspected to be a seroconversion sample containing hepatitis C virus specific seroconversion antibodies taken from a subject, under reducing conditions which prevent formation of covalent, cross linked molecular aggregates with at least one polypeptide consisting of an amino acid sequence found in hepatitis C virus protein NS3 region, which is immunologically reactive with said hepatitis C virus specific seroconversion antibodies, and determining binding of said antibodies to said polypeptide to recognize seroconversion in said subject.

REMARKS

Entry of the foregoing amendment is requested.

Claims 27-38 were pending previously. Claims 27-36 are cancelled. Claim 37 was not rejected in the last office action, and remains as it was. Claims 27-36 are replaced by claims 39-49. Claim 38 is amended, and a Showing of Changes is presented.

Applicants turn to the rejection of claim 38 first. The examiner has rejected this claim in view of JP 06074956, plus <u>Beach</u> or <u>Vallari</u>, which are newly cited. Claim 38 is also rejected over these references taken with Schuurs, et al., re. 32,696.

Applicants have considered this rejection, and traverse it.